

FIG. 1  
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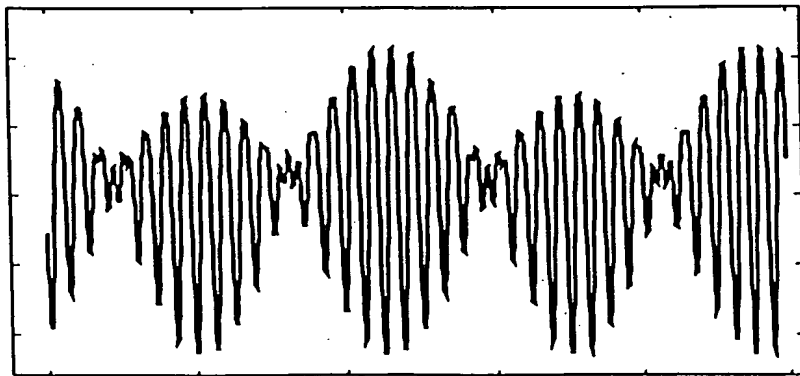
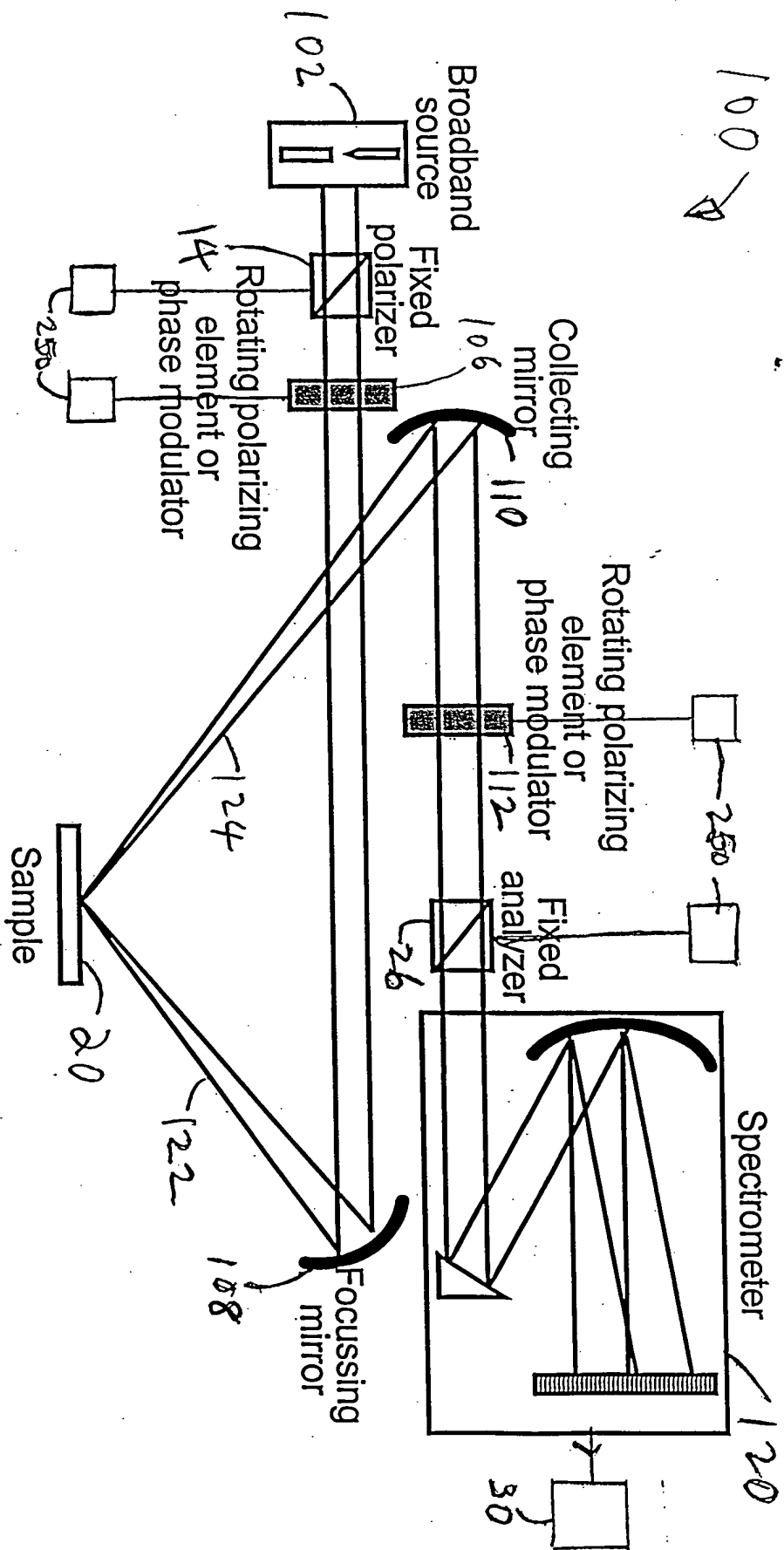
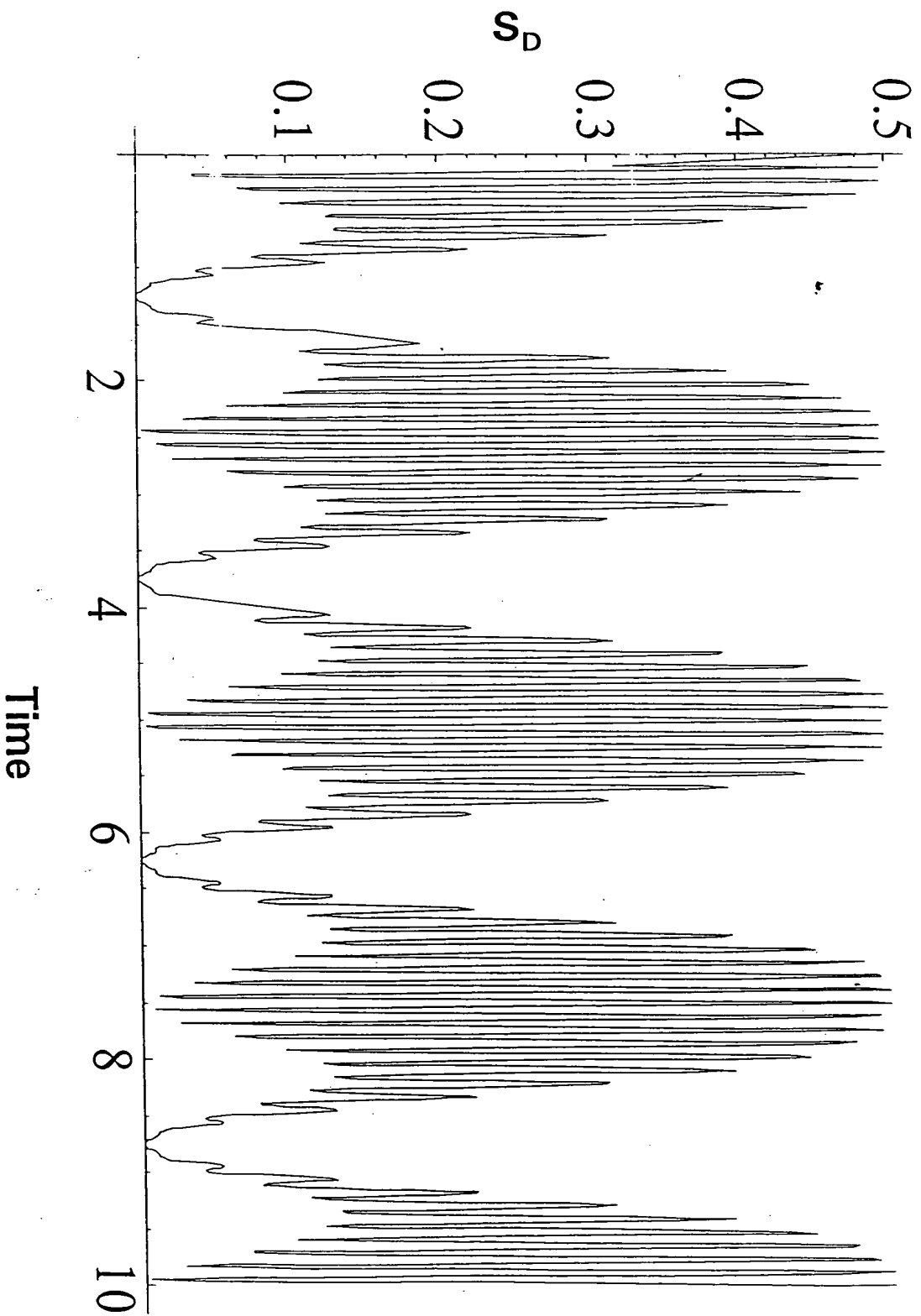


Figure 2 An example of detector signal as a function of time.

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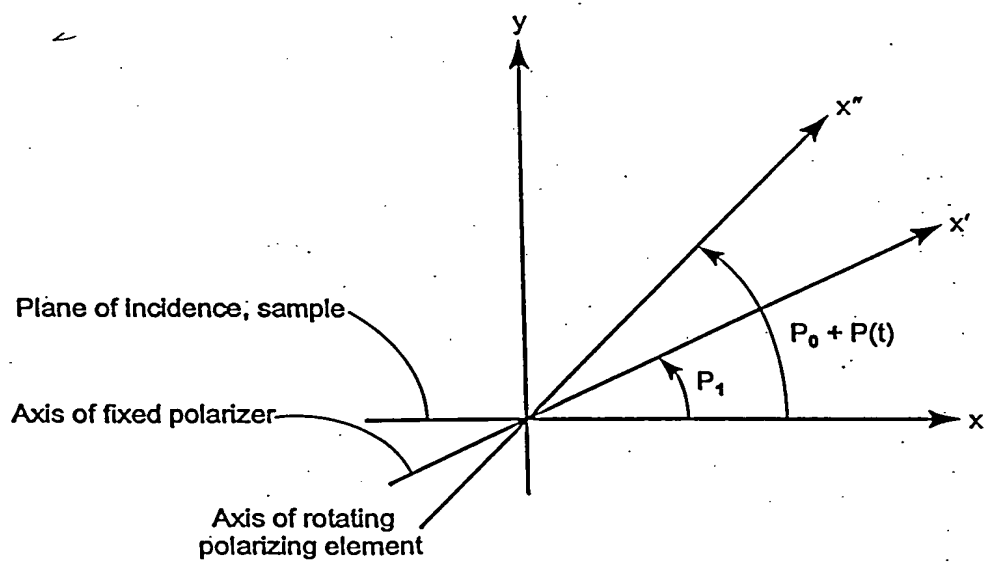


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F14.4  
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5  
Figure 1 Angle definitions in polarization generation side.

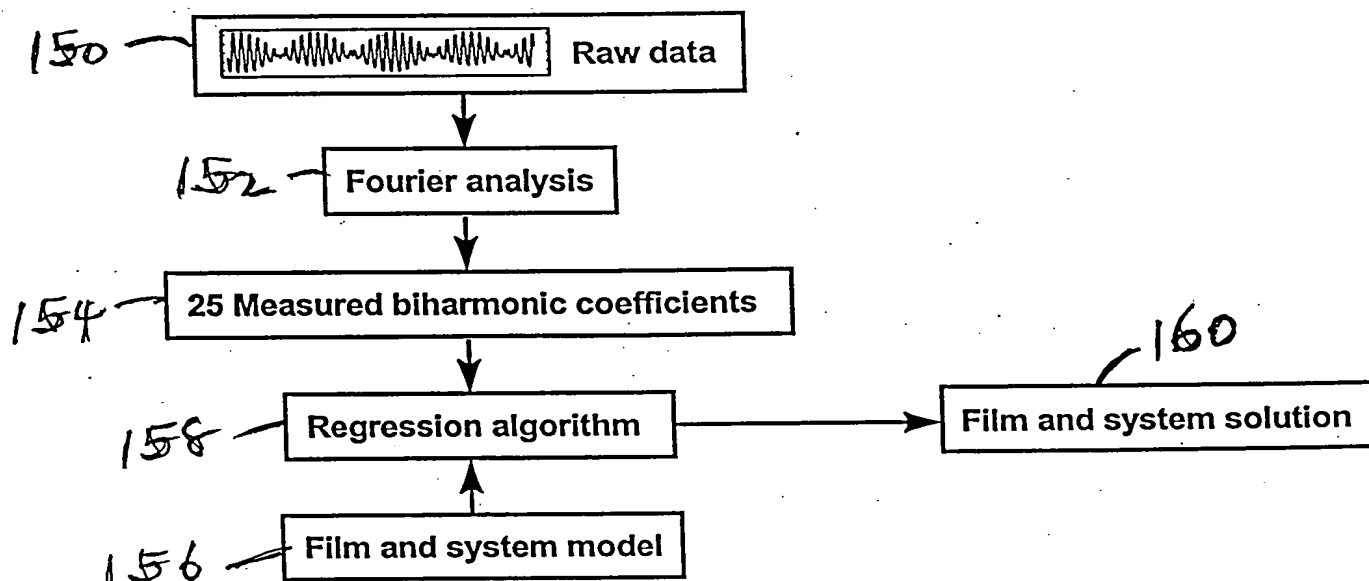
[illegible]

Figure 8 Flow chart of the regression algorithm.

FIG. 7A  
Rotating-polarizer

FIG. 7B

Rotating-analyzer

FIG. 7C

Rotating-both

FIG. 7D

Rotating-polarizer

FIG. 7E

Rotating-analyzer

FIG. 7F

Rotating-both, pre-polarizer

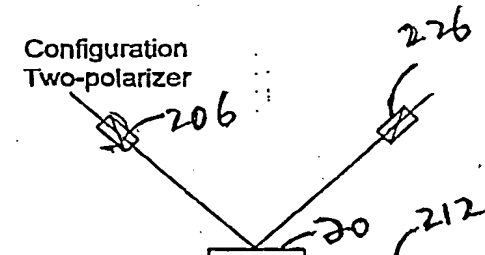
FIG. 7G

Rotating-both, post-analyzer

FIG. 7H

Rotating-both

Configuration  
Two-polarizer



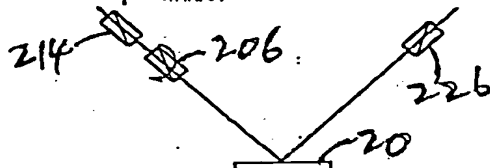
Harmonics & system parameters

3 harmonics.  
AOI,  $P_1$ ,  $A_0$ ,  
 $P_P$ ,  $q_P$ ,  $P_{A0}$ ,  $q_{A0}$ ,  
 $S_r(\lambda)$ .

3 harmonics.  
AOI,  $P_0$ ,  $A_1$ ,  
 $P_{P0}$ ,  $q_{P0}$ ,  $P_A$ ,  $q_A$ ,  
 $S_r(\lambda)$ .

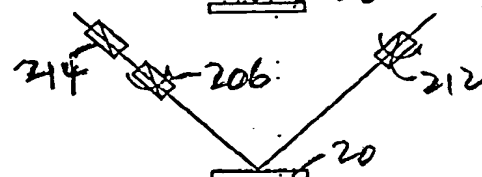
5 harmonics, 3 independent  
AOI,  $P_1$ ,  $A_1$ ,  
 $P_P$ ,  $q_P$ ,  $P_A$ ,  $q_A$ ,  
 $S_r(\lambda)$ .

Three-polarizer

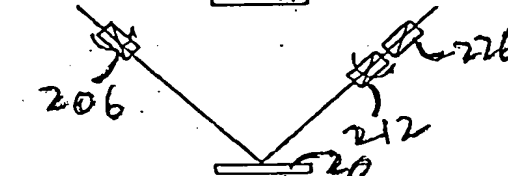


5 harmonics.  
AOI,  $P_0$ ,  $P_1$ ,  $A_0$ ,  
 $P_{P0}$ ,  $q_{P0}$ , ( $P_P$ ,  $q_P$ ),  $P_A$ ,  $q_A$ ,  
 $S_r(\lambda)$ .

5 harmonics.  
AOI,  $P_0$ ,  $A_1$ ,  $A_0$ ,  
 $P_{P0}$ ,  $q_{P0}$ ,  $P_A$ ,  $q_A$ , ( $P_{A0}$ ,  $q_{A0}$ ),  
 $S_r(\lambda)$ .

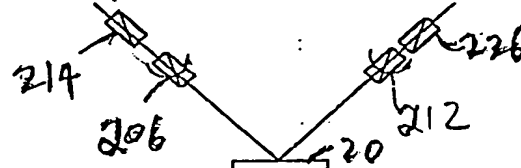


15 harmonics, 8 independent.  
AOI,  $P_0$ ,  $P_1$ ,  $A_1$ ,  
 $P_{P0}$ ,  $q_{P0}$ , ( $P_P$ ,  $q_P$ ),  $P_A$ ,  $q_A$ ,  
 $S_r(\lambda)$ .



15 harmonics, 8 independent.  
AOI,  $P_1$ ,  $A_1$ ,  $A_0$ ,  
 $P_P$ ,  $q_P$ ,  $P_A$ ,  $q_A$ , ( $P_{A0}$ ,  $q_{A0}$ ),  
 $S_r(\lambda)$ .

Four-polarizer



25 harmonics.  
AOI,  $P_0$ ,  $P_1$ ,  $A_1$ ,  $A_0$ ,  
 $P_{P0}$ ,  $q_{P0}$ , ( $P_G$ ,  $q_G$ ),  $P_A$ ,  $q_A$ , ( $P_{A0}$ ,  $q_{A0}$ ),  
 $S_r(\lambda)$ .

- $P_0$ ,  $A_0$  – Angles of fixed polarizer and analyzer
- $P_1$ ,  $A_1$  – Initial angles of rotating polarizer and analyzer corresponding to encoder zero
- $p$ ,  $q$  – Unpolarized and elliptically polarized factors in polarizer and analyzer Mueller matrix

FIG. 8A

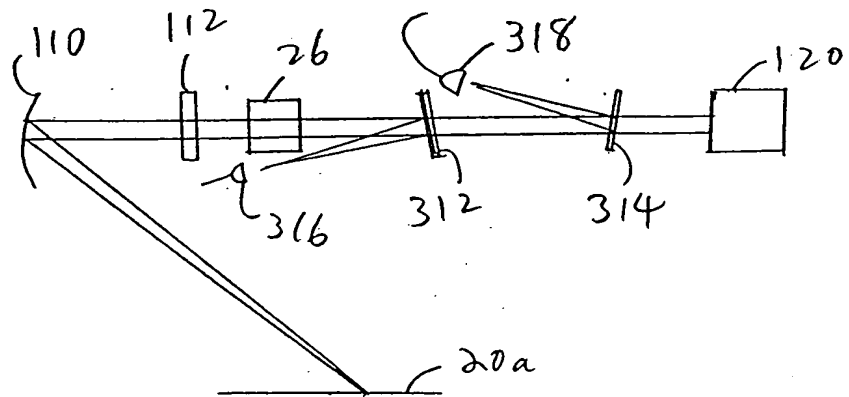
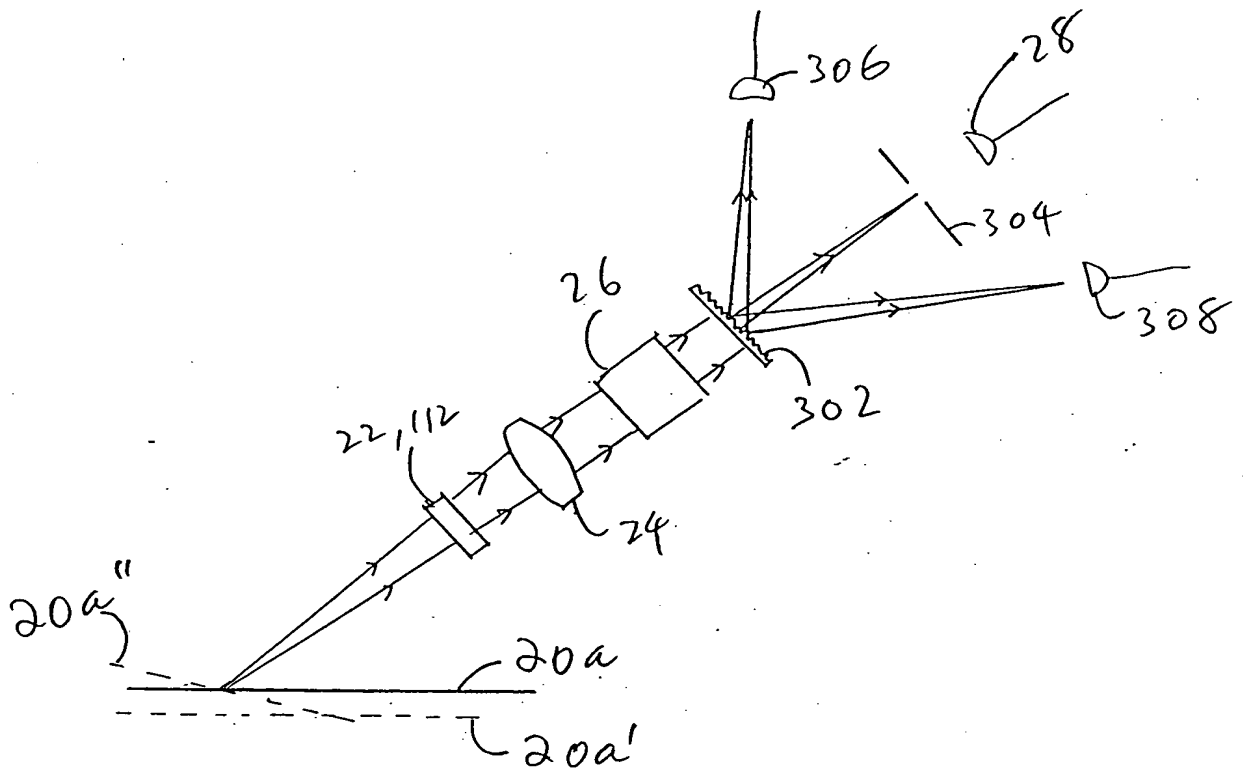


FIG. 8B



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- SAMPLE PATH
- - - REFERENCE PATH
- · · FIELD ILLUM. PATH
- - - MEASUREMENT ILLUM. PATH
- ■ ■ ■ ■ ELIPSOMETER PATH

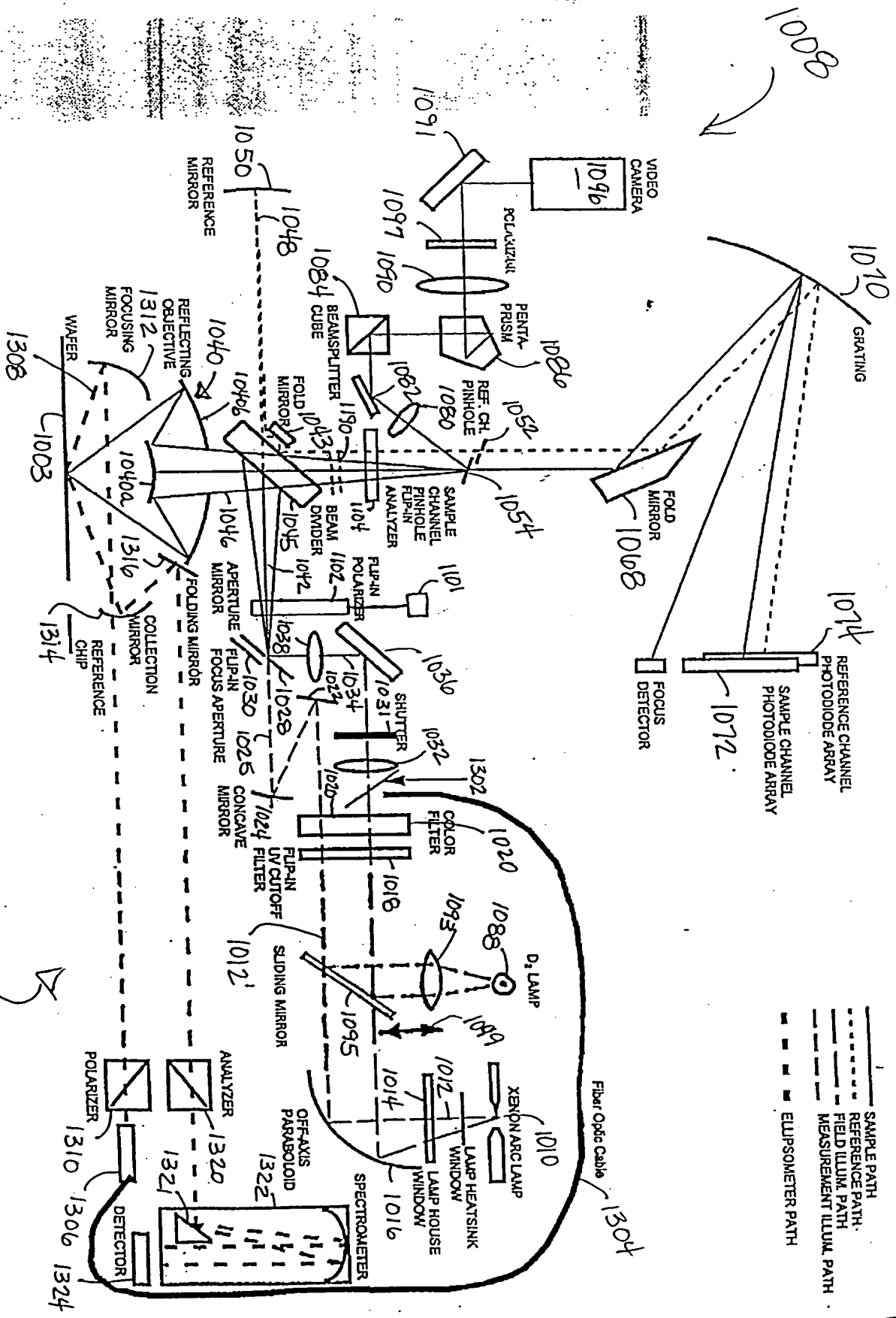
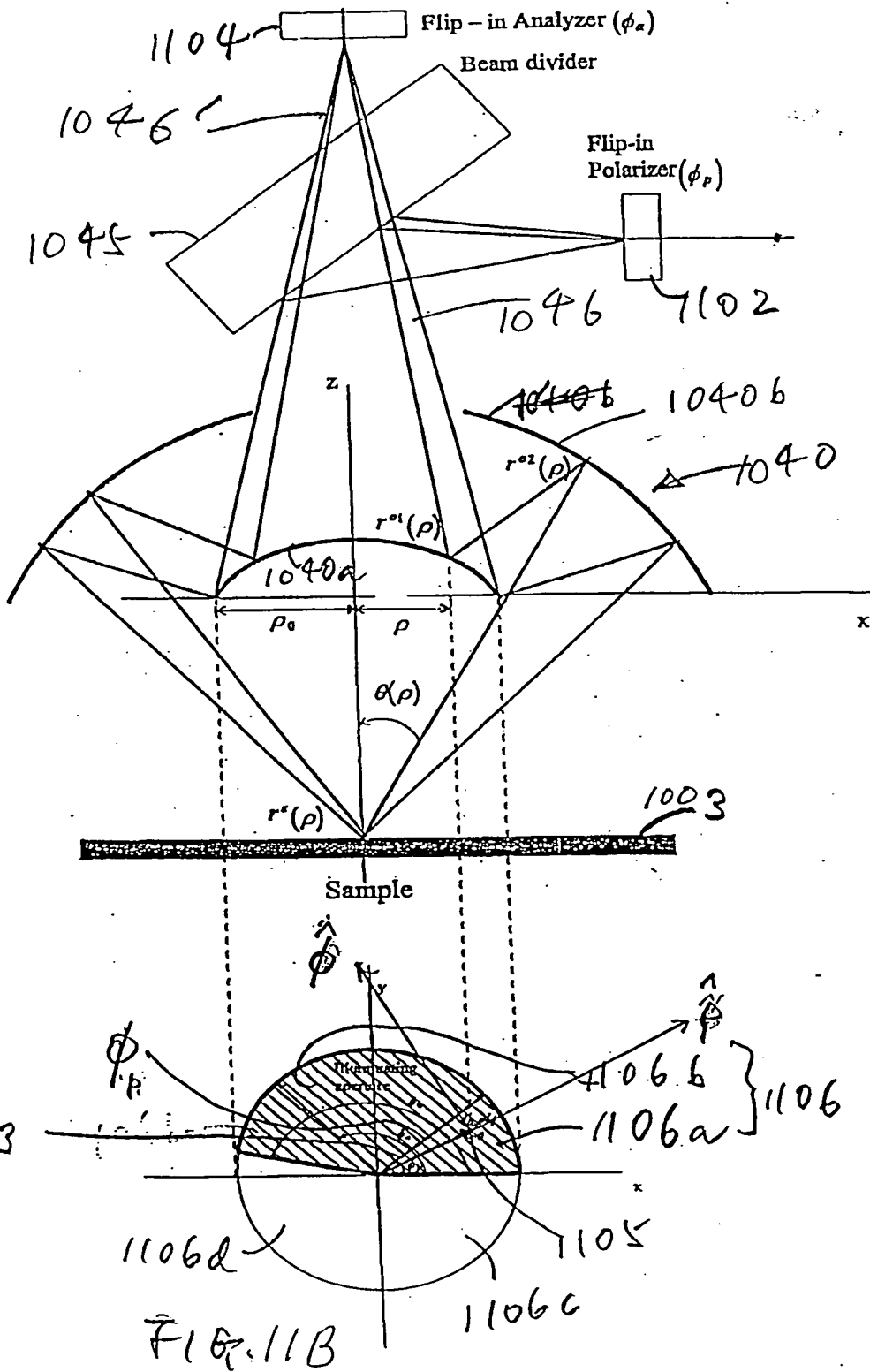


FIG. 9

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**FIG. 10**

FIG. 11A



# Descriptions of PDBS system

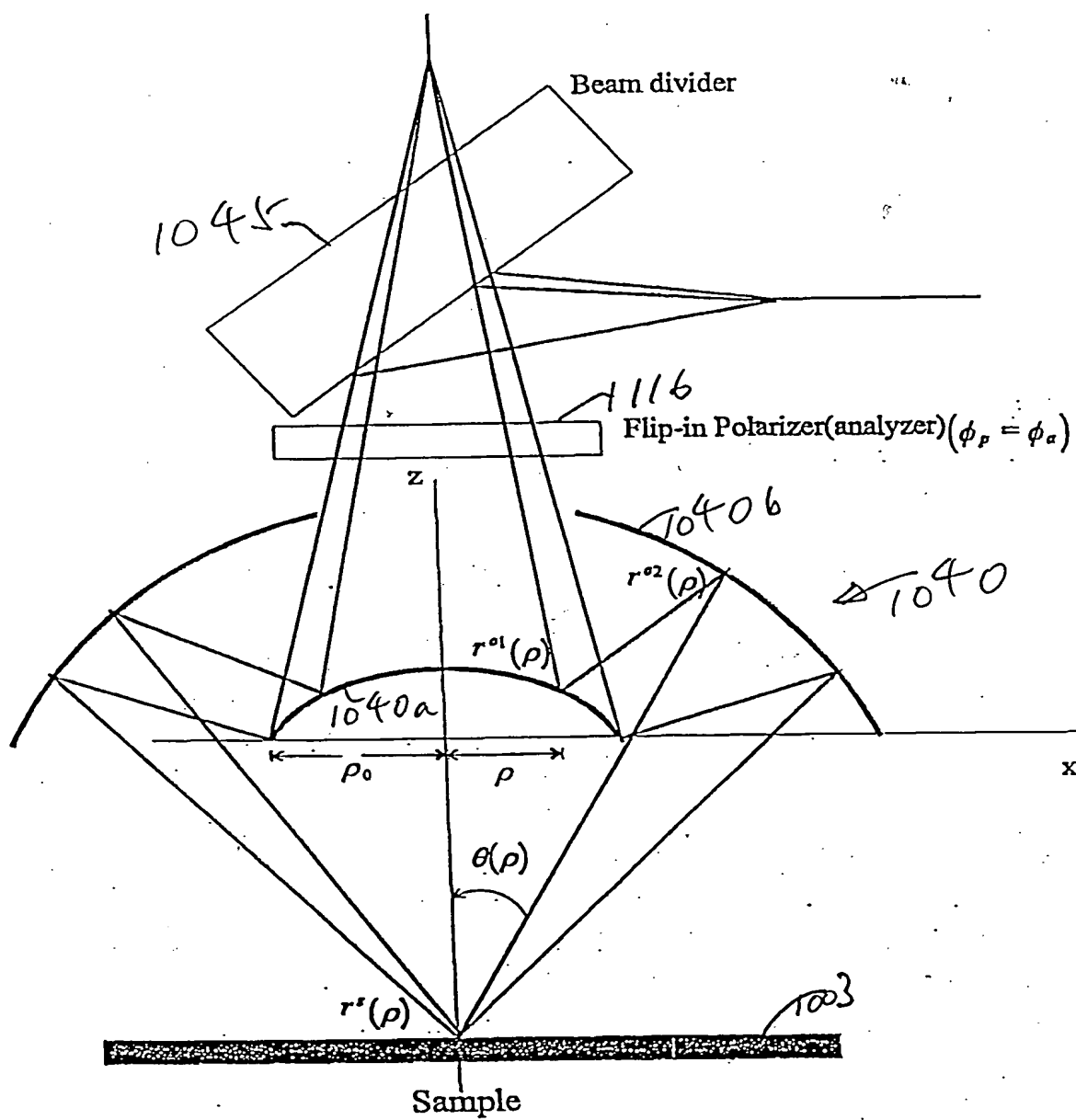


Fig. 12

# Descriptions of PDBS system

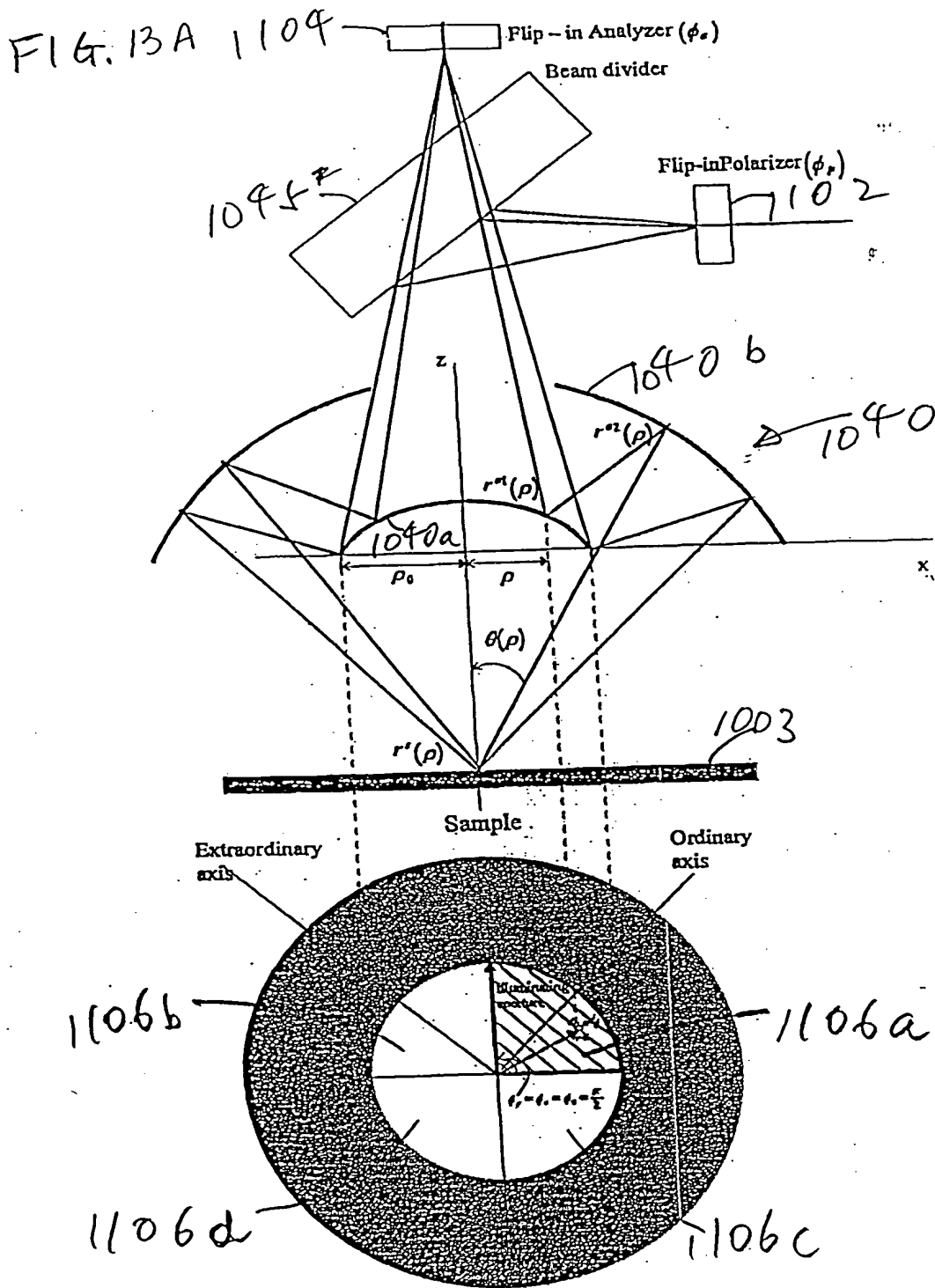


FIG. 13B